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IN THE CLAIMS:

65. (Currently Amended) A vehicle occupant seat detection means and weight responsive classification system for ~~advanced~~ a supplemental restraint system ~~for~~ of a vehicle; comprising:

a weight-sensing unit operatively secured beneath at least ~~one~~ a seat in said vehicle;

a computerized system communicatively connecting said weight sensing unit to a supplemental restraint system ~~installed in said vehicle~~, said supplemental restraint system comprising at least one airbag system each having at least one airbag, each said airbag system corresponding to one of said ~~seats~~ at least one seat;

said at least one weight-sensing unit ~~being~~ configured for taking weight measurements of at least an occupant in ~~a~~ said at least one seat, and comprising means for converting said weight measurements into one or more electrical signals, and communicating said electrical signals to said computerized system;

said computerized system ~~being~~ programmably configured to calculate an operating weight value from said electrical signals corresponding to said weight measurements ~~for each~~ of an occupant in said seat and ~~to communicate~~ communicating said operating weight value to said airbag system corresponding to said ~~seat~~ at least one seated occupant;

each said airbag system being electronically configured for receiving said operating weight value for said seat and for ~~mechanically~~ adjusting a deployment unit within said airbag system to deploy said at least one airbag with a deployment force and acceleration for airbag inflation that are proportionate to said weight measurements; said computer system comprises at least an erasable programmable read only memory "EPROM" operatively configured with said computerized system for monitoring the weight of at least a seated ~~occupants~~ occupant and for correcting the weight of at least a changing occupant; and

said weight sensing unit disposed between a seat mounting structure means and the floor means of a vehicle ~~responsive~~ responsible for determining the actual weight of a seated occupant, wherein said airbag system is rendered of sufficient deployment force and acceleration for said airbag inflation to keep said seated occupant on the seat when a collision is sensed, but is not rendered of sufficient deployment force and acceleration for said airbag inflation to cause impact injury to the occupant .

66. (Original) The vehicle occupant seat detection means and weight responsive classification system of claim 65, wherein said weight sensing unit comprising at least a load cell.

67. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim 66, wherein said load cell configured with at least a strain gauge comprising electrical resistance means ~~for transforming~~ responsible for generating electrical energy corresponding to said occupant's weight ~~into electrical energy~~.

69. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system ~~for a weight responsive apparatus~~ of claim 65, wherein said ~~computer means further comprises at least an~~ EPROM further comprises means for controlling weight data about a changing occupant at an address line configured for each seat and responsible for effectively controlling the classification data for at least a vehicle occupant.

69. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system ~~for a weight responsive apparatus~~ of claim ~~67~~ 68, wherein said EPROM further comprises means for correcting said seat occupant's weight data at the address line when said data is influenced by at least an external force comprising of at least a force created by bumps and/or at least a transient pike.

72. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system ~~for a weight responsive apparatus~~ of claim 68, wherein said address line configured for each seat comprising at least one occupant detection means , wherein said occupant detection means comprising means for sensing weight and generating a weight signal corresponding to the weight of at least a seated occupant.

73. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system ~~for a weight responsive apparatus~~ of claim ~~69~~ 67, wherein said ~~sensing unit comprises at least a~~ load cell ~~comprising at least a strain gage configured with at least an electrical resistance means and~~ operatively configured with at least a restraint device, the restraint device communicatively connected to said computer system comprising means for adjusting the deployment force/speed of said restraint device responsive to the weight value of the occupant on the seat.

72. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim ~~66~~ 70, wherein said address line ~~configured for each seat,~~ further configured with means for comparing identified weight data with the seated occupant's weight data, said means generating at least a new data if said comparison is significantly different ~~correcting seat occupant data when said data is influenced by at least an external force~~.(.)

73. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim 66, wherein said load cell comprises at least one strain gauge each configured to sense a force applied to it ~~when said occupant occupies said seat~~, each said gauge comprising electrical resistance elements configured to detect and measure resistance occurring when external strain is ~~applied to said gauge~~ sensed, wherein said external strain ~~corresponds to said~~ corresponding to at least an applied force from said ~~occupant~~ occupant's body on said seat, and ~~is~~ wherein said external strain being converted into corresponding electrical ~~current for communicating said electrical signals~~ energy for communications.

74. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim 65, wherein said computerized system comprises a control module comprising ~~electrically connected to~~ a central processing unit, said control module ~~programmably configured to identify~~ comprising means for identifying each ~~said~~ seat for which said weight measurements are taken and ~~to activate~~ activating said airbag system corresponding to each said seat for which said weight measurement exceed a minimum weight threshold value

generally corresponding to the weight of at least a small child.

75. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim 74, wherein said minimum threshold value is ~~about~~ at least 20 pound.

76. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim 74, wherein said control module ~~is~~ further configured to receive analog ~~electric line~~ signals ~~from said weight sensing unit regarding said weight measurements, said control module further being configured to convert~~ and converting said analog signals to digital signals corresponding to said ~~analog signals~~ occupant's weight.

77. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim 76, wherein said control module ~~is~~ further configured to convert said digital signals to binary signals corresponding to ~~said analog~~ signals ~~and suitable~~ for use with ~~a~~ plurality of transistorized switches ~~that,comprise~~ comprising said central processing unit for ~~processing said weight measurements as said binary signals and~~ communicating said operating weight value ~~calculated therefrom~~.

78. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim 74, wherein said central processing unit comprises read only memory ~~having~~ configured with a basic input-output system comprising at least a storage means ~~for storing said weight measurements communicated from said control module~~, wherein said processing unit further comprising random access memory, and wherein said read only memory ~~storing~~ operatively configured with a software program ~~that utilizes~~ responsive for said random access memory, said ~~software program being programmed to use said~~ random access memory responsive for accessing said weight measurements ~~from at least an~~ and in communication with said address line ~~in said basic input-output system and for calculating said operating weight value~~.

79. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim 65, wherein said deployment unit comprises a combustion chamber operatively connected to a canister of igniting gas, a microprocessor configured ~~to receive~~ for receiving said operating weight value ~~communicated from said computerized system~~, said microprocessor electrically connected to an accelerometer, said accelerometer electrically connected to said canister and operatively connected to said combustion chamber.

80. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim 79, wherein said accelerometer ~~is electrically~~ communicatively connected to said canister, wherein said ~~by a~~ canister configured with at least a microprocessor electrically connected to a gas release valve relay and an igniter, and wherein said gas release valve relay ~~being~~ communicatively connected to a release valve operatively connected to said canister ~~between said canister and~~ for releasing proportionate amount of gas into said combustion chamber.

81. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim ~~74~~ 80, wherein said accelerometer comprises at least one piezoelectric crystal operatively connected to a mass in contact with a spring, said spring operatively connected to a sliding pot secured to said combustion chamber, said sliding pot configured to adjust an opening in said combustion chamber for expansion of igniting gas ~~from said canister~~ into said at least one airbag.

82. (Currently Amended) The vehicle occupant seat detection means and weight responsive classification system of claim ~~81~~ 79, wherein said microprocessor ~~is~~ further configured to translate said operating weight value ~~received from said computerized system~~ into an electric ~~current~~ energy operatively proportionate to said weight measurements, said electrical energy responsible for energizing ~~and to energize~~ said at least one crystal ~~with said proportional current~~, said energized crystal ~~configured with said mass~~ responsible for translating said electrical energy ~~of said proportional current to~~ into mechanical energy, said energy responsible for displacing said mass and correspondingly compressing said spring ~~for adjustment of~~ and enabling said sliding pot adjustment ~~a degree~~ correspondingly proportional to said weight measurements.

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